Advanced Manufacturing Engineering

Index to Volume 2, 1990

Articles

1 A bean-counter's guide to computer integration, *J. S. Busby, D. Dawson* 221

2 A modern concept for the design of machine tool monitoring and diagnosis systems, *D. Seidel, E. Menzel* 76

3 A personal radio advanced flowline manufacturing system, *D. Wilson* 45

4 A state-of-the-art review of just-in-time production, *T. C. E. Cheng* 96

5 A survey and classification of cutter generation methods for three-axis NC milling, *S. T. Tan, W. S. Sze, W. Y. Wong* 103

6 An insight into management attitudes in an organization not committed to total quality management, *D. M. Lascelles, B. G. Dale* 64

7 Application of pattern recognition in roller grinding, *Y. Zhao, J. Webster* 21

8 Architecture/software design for machine control, *J. Pu, R. Harrison, R. H. Weston, P. R. Moore* 195

9 Automatic control in manufacturing – current status, *K. Warwick* 17

10 Barriers to employee involvement in technical change: 'more than a case of the good guys and the bad guys', *B. Burnes* 69

11 Characterization of errors for on-line correction with a magnetic bearing spindle, *M. Anjanappa, D. K. Anand, J. A. Kirk* 179

12 Control policies for a mixed forging/machining cell for manufacturing metal components, *A. G. Mamalis, N. G. Bilalis* 11

13 Expert systems for machining parameter selection: Design aspects, *B. Gopalkrishnan* 59

14 Expert-systems-based evaluators: applications in design for manufacturing, *B. Gopalkrishnan, V. Pandiarajan* 189

15 Eye-to-hand coordination for vision-guided robotic pick-and-place operations, *D. F. H. Wolfe, S. W. Wijesoma R. J. Richards* 123

16 IGS: an intelligent geometric system designed to assist operations planning and tool selection for turned components, *P. G. Maropoulos* 143

17 Information management for computer integrated manufacturing, *D. M. Weber, C. L. Moodie* 83

18 MRPII and OPT: are the differences more apparent than real? *I. Henderson, J. G. Kenworthy*

19 Machining of engineering ceramics with a high power CO_2 laser, *M. Naeem, M. E. Preston, J. R. Tyrer* 27

20 Measuring productivity at company level: a comparative study of two productivity models, *A. S. H. Yousif, B. G. Dale* 37

21 Multi-order clustering: an effective cluster algorithm for part grouping, *X. H. Shan, A. Y. C. Nee, A. N. Poo* 204

22 Perceived causes of failure of small manufacturing firms, *H. Karimabady, P. Brunn* 213

23 Performance evaluation of industry and national aerospace standard end mill geometries *S. Chandrashekhar, S. Chatterjee* 133

24 Petri net control of an automated manufacturing cell *T. O. Boucher, M. A. Jafari, G. A. Meredith* 151

25 Pressure to effect injection forming *R. Balendra* 32

26 Process improvement in surface mount technology, *Ling-Yau Chan, Wai-Keung Lam* 139

27 The effectiveness of AMT investment decisions in the UK process machinery industry, *D. J. Hamblin* 161

28 The use of machine vision within the electronics manufacturing industry, *J. Edwards* 3

Authors of articles

(Number refers to article number)

Anand, D. K. **11**
Anjanappa, M. **11**
Balendra, R. **25**
Bilalis, N. G. **12**
Boucher, T. O. **24**
Brunn, P. **22**
Burnes, B. **10**
Busby, J. S. **1**
Chan, Ling-Yau **26**
Chandrashekhar, S. **23**
Chatterjee, S. **23**
Cheng, T. C. E. **4**
Dale, B. G. **6, 20**
Dawson, D. **1**
Edwards, J. **28**
Gopalkrishnan, B. **13, 14**
Hamblin, D. J. **27**
Harrison, R. **8**
Henderson, I. **18**
Jafari, M. A. **24**
Karimabady, H. **22**
Kenworthy, J. G. **18**
Kirk, J. A. **11**
Lam, Wai-Keung **26**
Lascelles, D. M. **6**
Mamalis, A. G. **12**
Maropoulos, P. G. **16**
Menzel, E. **2**
Meredith, G. A. **24**
Moodie, C. L. **17**
Moore, P. R. **8**
Naeem, M. **19**
Nee, A. Y. C. **21**
Pandiarajan, V. **14**
Poo, A. N. **21**
Preston, M. E. **19**

Pu, J. **8**
Richards, R. J. **15**
Seidel, D. **2**
Shan, X. H. **21**
Sze, W. S. **5**
Tan, S. T. **5**
Tyrer, J. R. **19**
Warwick, K. **9**
Weber, D. M. **17**
Webster, J. **7**
Weston, R. H. **8**
Wijesoma, S. W. **15**
Wilson, D. **3**
Wolfe, D. F. H. **15**
Wong, W. Y. **5**
Yousif, A. S. H. **20**
Zhao, Y. **7**

Keywords
(Number refers to article number)

Acoustic emission **22**
Adaptive control **22**
AME investment decisions **26**
Artificial intelligence **16**
CO_2 laser **18**
Company failures **21**
Computer integration **1**
Computer-integrated manufacturing **16**
Concurrent engineering **13**
Control policies **11**
Control simulation **8**
Cutter path generation **4**
Cutting **18**
Defect rates **25**
Design for manufacturing **13**
Dies **24**
Dynamic control **8**
Economic value **1**
Electronics manufacturing **27**
Employee involvement **9**
End mills **22**
Engineering ceramics **18**
Error characterization **10**
Expert systems **12**
Flexibility **1**
Flexible manufacturing systems **2**
Forging/machining cell **11**
Forming pressure measurement **24**
Fuzzy sets **6**
Group technology **20**
Growth options approach **1**
Information management **16**
Injection forming **24**
Intelligent geometric system (IGS) **15**
Just-in-time **2**
Just-in-time production **3**
Kanban **2**
Knowledge-based expert systems **13**
Local area network **2**
Machine control **7**
Machine vision **14, 27**
Machining **18**
Machining parameter selection **12**
Magnetic bearing spindles **10**
Management attitudes **5**
Manufacturing performance hierarchy **26**
Matrix formulation **20**
Metal components **11**
Milling **22**
MRPII **17**
Multi-order clustering algorithm **20**
Multifactor survey **26**
NC milling **4**
NC/CNC lathes **15**
On-line correction **10**
Operational strategy **11**
Operations planning **15**
OPT **17**
Order-winning criteria **2**
Part grouping **20**
Partial productivities **19**
Pattern recognition **6**
Performance evaluation **22**
Petri nets **23**
Pick-and-place operations **14**
Planning characteristics **21**
Printed circuit board **25, 27**
Productivity measurement **19**
Productivity model **19**
Programmable logic controllers **23**
Real-time production control **23**
Relational databases **16**
Robotics **14**
Robots **8**
Roller grinding **6**
Small manufacturing firms **21**
Software design **7**
Solid modelling **4**
Statistical analysis **26**
Surface mount technology **25**
System architecture **7**
Teamwork **3**
Technical change **9**
Tool path errors **10**
Tool selection **15**
Total productivity **19**
Total quality management **5**
Turned components **15**
Wear **22**

Book reviews

Competitive Manufacturing 173
Group Technology. Foundation for Competitive Manufacturing 51
Processes and Design for Manufacturing 232
Production to Order. Models and Rules for Production Planning 232
Right Every Time: Using the Deming Approach 117
Taguchi Methods. Applications in World Industry 233

Conference reports

28th International MATADOR Conferences 172
Manufacturing Strategy 116
Mass Production Composites 53